









Team-up crop diversification and weed management: PRODIVA

Better utilization of crop diversification for weed management in North European organic arable cropping systems

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Introduction

The research-network PRODIVA focuses on a better utilization of crop diversification for weed management in North European organic arable cropping systems. The goal is to maintain diverse arable weed vegetation that is manageable in the long-term and could fulfill other necessary systemfunctions including support of beneficial organisms.

The partners in PRODIVA will:

- Synthesize knowledge from existing literature, previous and new experiments on cover crops, variety mixtures and crop mixtures.
- Survey regional fields for weeds to safeguard relevance of the experimental research.
- Involve and interact with relevant stakeholders and extension services in agriculture from the participating countries to assist in the research. Project and results will be disseminated to them.

Objectives

- To strengthen the scientific foundation for utilization of crop diversification.
- To survey the weed flora regionally
- To link the weed situation to the applied agronomic measures in farms.
- To bridge the information from surveys with the scientific groundwork.
- To disseminate important results and recommendations to extension services and growers.

Hypotheses

Weed management can be improved with:

- · Pertinent crop sequencing, mitigating noxious weed species.
- Selected competitive cover crop species.
- Improved cover crop establishment.
- · Better utilization of growth resources with crop mixtures.
- Stronger pressure on weeds with variety mixtures.

Project details

Work package 0: Project coordination Location: Denmark

Responsible: Bo Melander

Work package 1: Weed dynamics in crop rotations with cover crops

Location: Finland, Latvia, Denmark Responsible: Jukka Salonen

Work package 2: Crop mixtures for weed suppression

Location: Sweden, Poland Responsible: Anneli Lundkvist

Work package 3: Variety mixtures for weed suppression

Location: Denmark, Poland, Latvia Responsible: Bo Melander

Work package 4: Crop diversification applications and weed flora on farms

Location: Germany, Denmark, Sweden, Finland, Latvia

Responsible: Bärbel Gerowitt

Work package 5: Project dissemination

Location: Germany, Denmark, Sweden, Finland, Latvia, Poland, Responsible: Bärbel Gerowitt

Time frame

This project takes has a duration of three years: 01.03.2015-28.02.2018. Annual partner meetings and stakeholder meetings will be organized.

Funding

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Contact

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IIVA partners I. to r. L de Cock (Core Organic), T Verwijst (SE), J Sa Zarina (LV), B Melander (DK), S Kaczmarek (PL), MAJ Hofmeijer wczyk (PL), B Gerowitt (DE), A Lundkvist (SE). Source: L Zarina

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- 3 Institute of Plant Protection, Department of Weed Science and Plant Protection Techniques, Poland
- ⁴ Natural Resources Institute Finland, Jokioinen, Finland
- ⁵ Swedish University of Agricultural Sciences, Crop Production Ecology, Uppsala, Sweden
- ⁶ State Priekuli Plant Breeding Institute, Field crop management, Priekuli, Latvia